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APPLICATION N	IO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,034	•	03/26/2004	Stephen M. Trimberger	X-1006-1D US	8432
24309	7590	02/15/2006	•	EXAMINER	
XILINX	•		TAN, VIBOL		
ATTN: L 2100 LO		PARTMENT		ART UNIT	PAPER NUMBER
SAN JOS	SAN JOSE, CA 95124			2819	
				DATE MAILED: 02/15/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

			H. A					
	Application No.	Applicant(s)	1					
	10/810,034	TRIMBERGER,	STEPHEN M.					
Office Action Summary	Examiner	Art Unit						
5555	Vibol Tan	2819						
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet	with the correspondence a	nddress					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUN 136(a). In no event, however, may will apply and will expire SIX (6) Mo e, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on 18 J	anuary 2006.							
	s action is non-final.							
3) Since this application is in condition for allowated closed in accordance with the practice under a condition.	•	•	ne merits is					
Disposition of Claims								
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application	1.							
4a) Of the above claim(s) is/are withdra								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-15</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/o	or election requirement.							
Application Papers								
9)☐ The specification is objected to by the Examine	er.							
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to	b by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abey	ance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	tion is required if the drawin	g(s) is objected to. See 37 (CFR 1.121(d).					
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action or form P	PTO-152.					
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreigr a) All b) Some * c) None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).						
1. Certified copies of the priority document								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	o(s)/Mail Date						
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Motice of 6) Other:	Informal Patent Application (PT	O-152)					

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Agrawal et al. (U.S. Pat. 6,100,715) in view of Wu et al. (U.S. PAT. 6,510,530).

In claim 1, Agrawal et al. teaches all claimed features in col. 2, lines 66-67 and col. 3, lines 1-2, a method of propagating signals on programmable interconnect in a programmable logic device, the method comprising: selecting by a selection device (dedicated multiplexer) between source signals (not shown) to drive a shared interconnect portion (shared line); with the exception of teaching coordinating latching of the source signals in corresponding capture devices via a time multiplexing signal generator coupled to the selection device and the capture devices. However, Wu et al. teaches in Fig. 1A coordinating latching of the source signals in corresponding capture devices (17, 19) via a time multiplexing signal generator (15) coupled to the selection device (16) and the capture devices (17, 19).

Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to combine the teachings of Agrawal et al. with the teachings of Wu et al. in order to save space in the programmable logic device.

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In claim 2, Wu et al. further teaches the method of Claim 1, wherein the source signals are provided by a configurable logic block (from function blocks, see Fig. 5) in the programmable logic device.

In claim 3, Wu et al. further teaches the method of Claim 1, wherein the source signals are provided by configurable logic blocks (from function blocks, see Fig. 5) in the programmable logic device.

In claim 4, Wu et al. further teaches the method of Claim 1 wherein the capture devices (17, 19) are provided in a configurable logic block (functional block) in the programmable logic device.

In claim 5, Wu et al. further teaches the method of Claim 1 wherein the capture devices (17, 19) are provided in configurable logic blocks (functional blocks) in the programmable logic device.

In claim 6, Wu et al. further teaches the method of Claim 1 wherein the source signals include non-critical signals (not critical signals).

In claim 7, Wu et al. further teaches the method of Claim 1 wherein the source signals include critical signals (opposite from not critical signals).

Claims 8 and 9, Wu et al. further teaches the method of Claim 1 wherein the capture devices comprise latches (17, 19); and connecting the selecting device to the capture devices using a programmable interconnect point.

Claims 10-12 correspond to detailed circuitry already discussed similar with regard to claims 1-9

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Claims 13-15 correspond to detailed circuitry already discussed similar with regard to claims 1-9.

Response to Arguments

3. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Agrawal et al. in view of Wu et al., as set forth in details above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vibol Tan whose telephone number is (571) 272-1811. The examiner can normally be reached on Monday-Friday (7:00 AM-4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rexford Barnie can be reached on (571) 272-7492. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VIBOL TAN
PRIMARY EXAMINER